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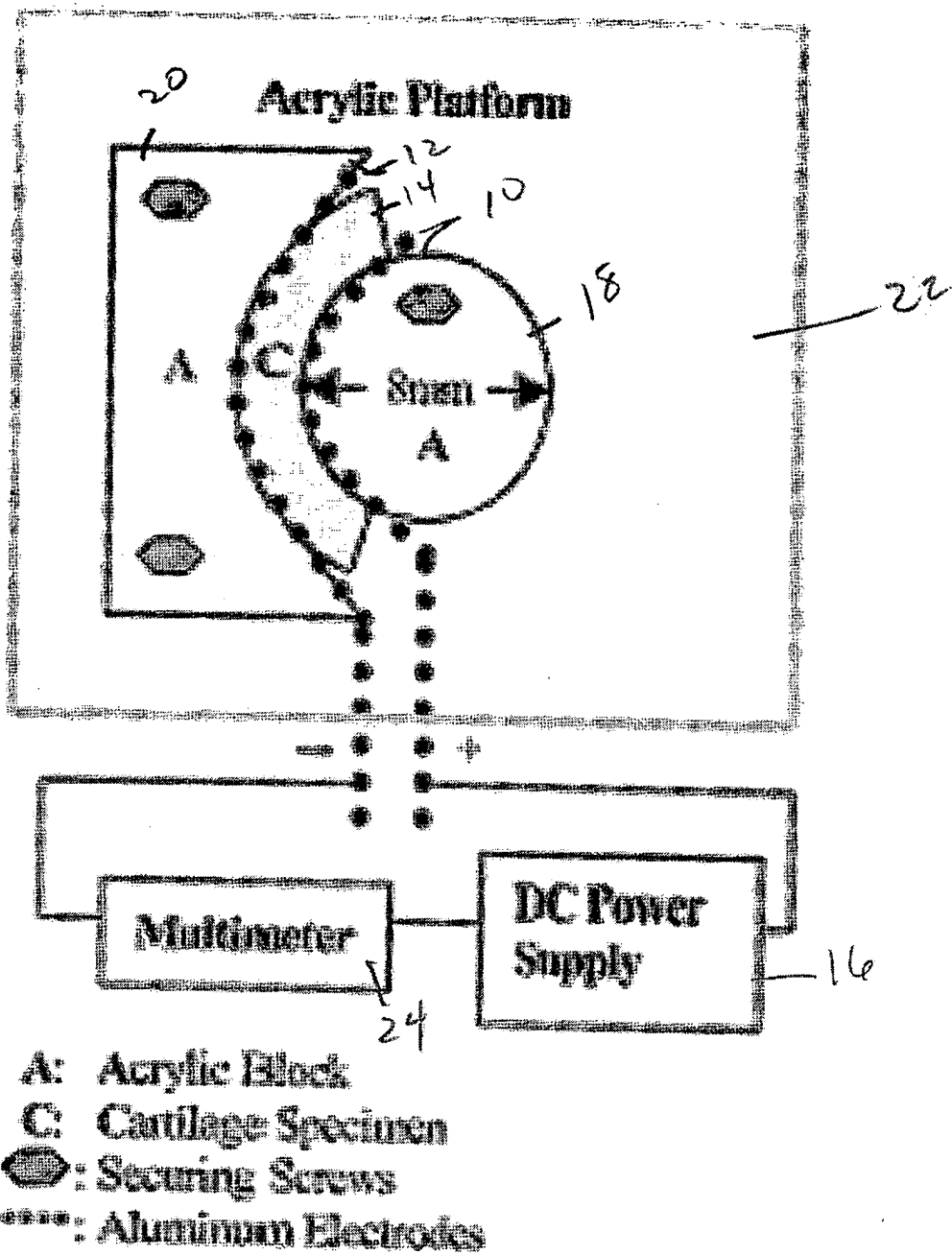


Fig. 1. Experimental protocol used to culture cartilage.

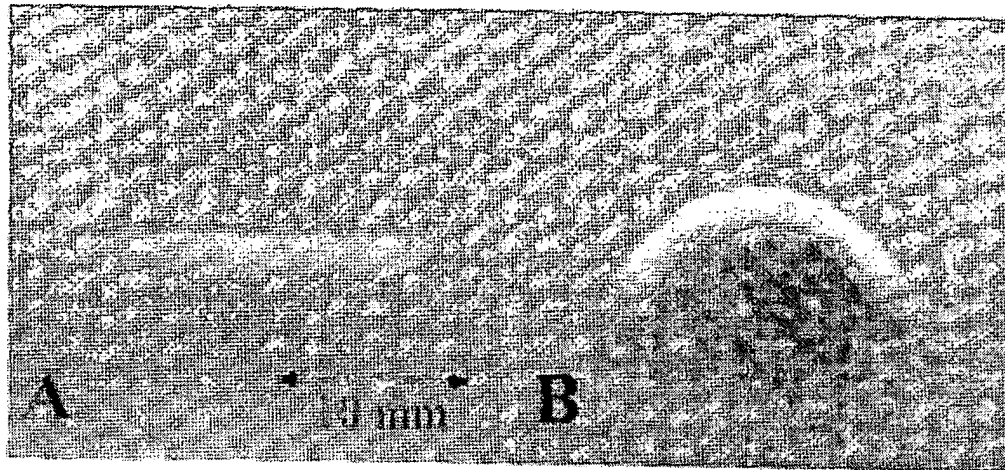


Fig. 2. Cartilage specimen before (A) and after (B) electroforming.

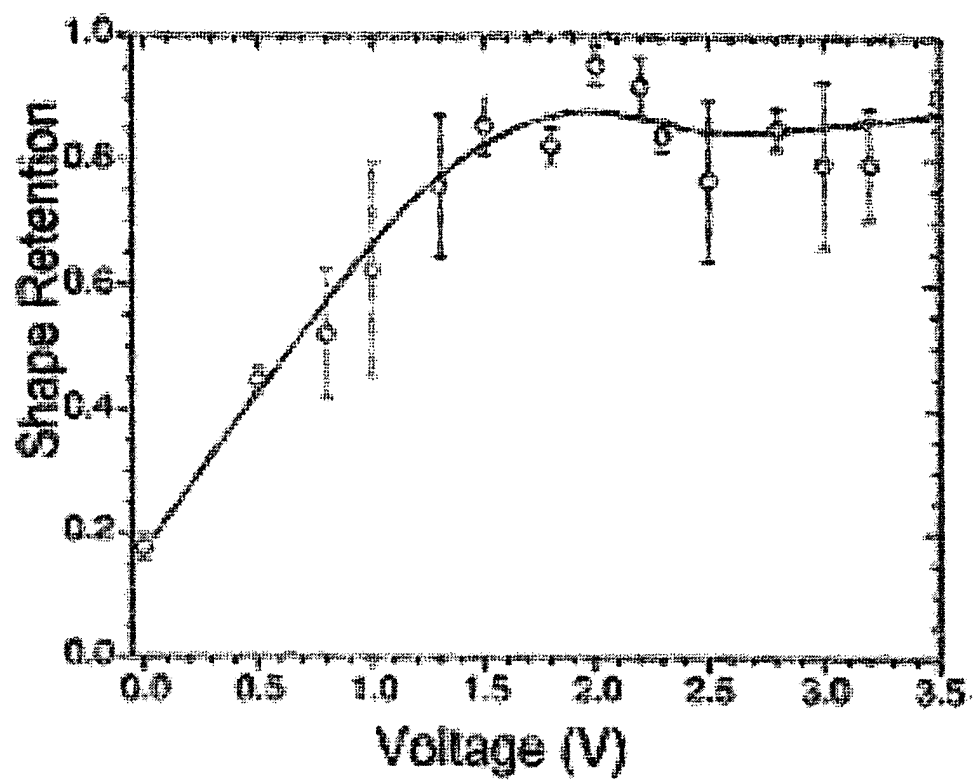


Fig. 3. Shape retention as a function of applied voltage (\pm SE).

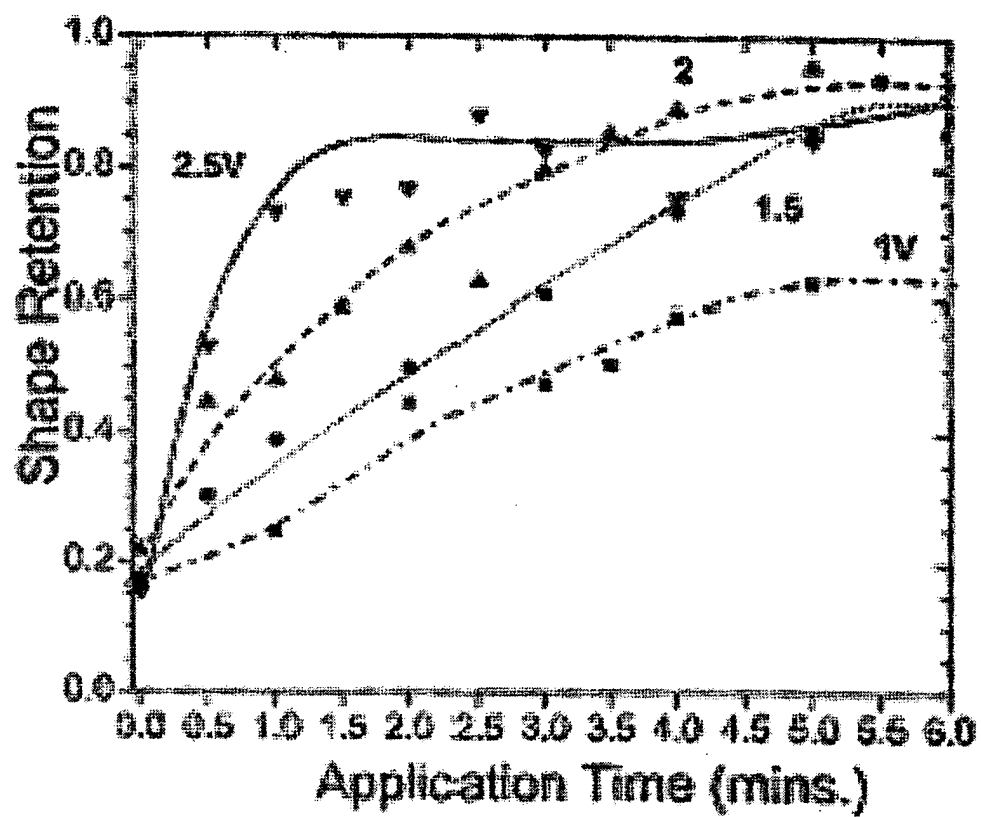


Fig. 4. Shape retention as a function of application time using four different voltages.

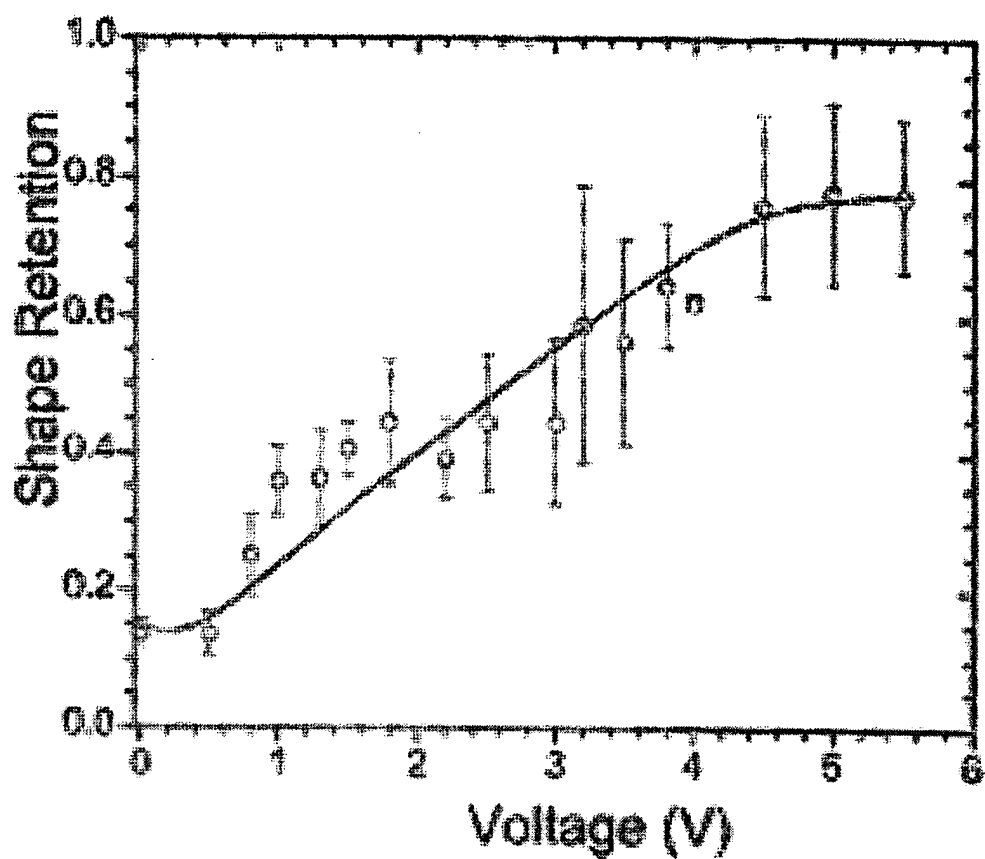


Fig. 5. Shape retention as a function of applied voltage with polarities of electrodes reversed (\pm SE).

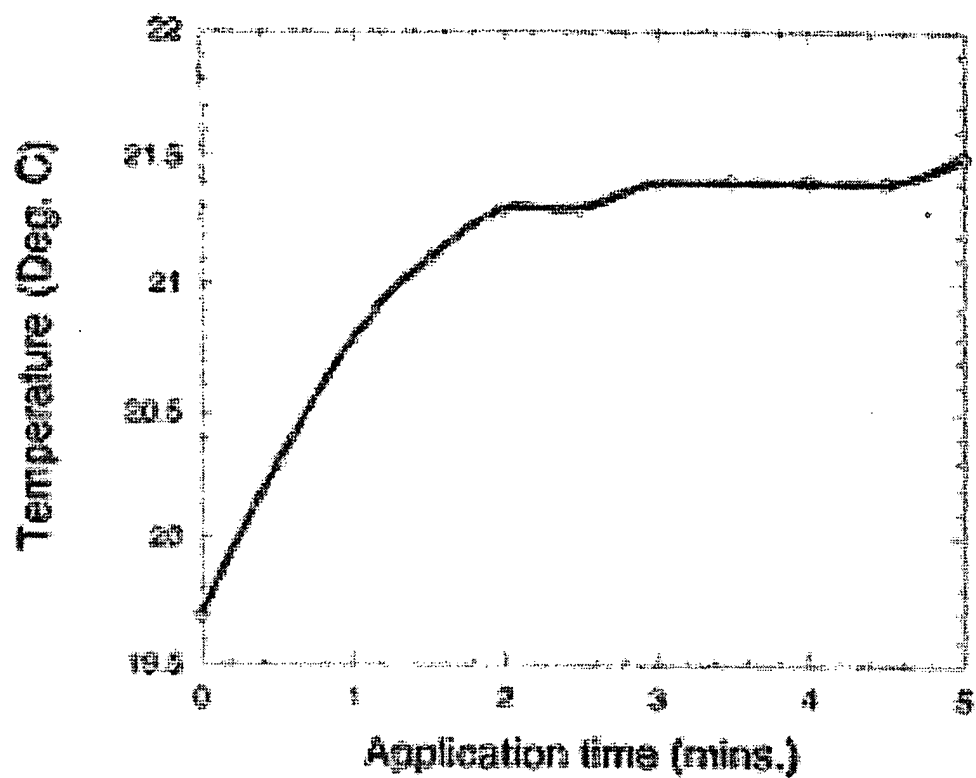


Fig. 6. Temperature as a function of application time using 3.5 V.

Fig. 7A

Viscoelastic Model of Articular Cartilage

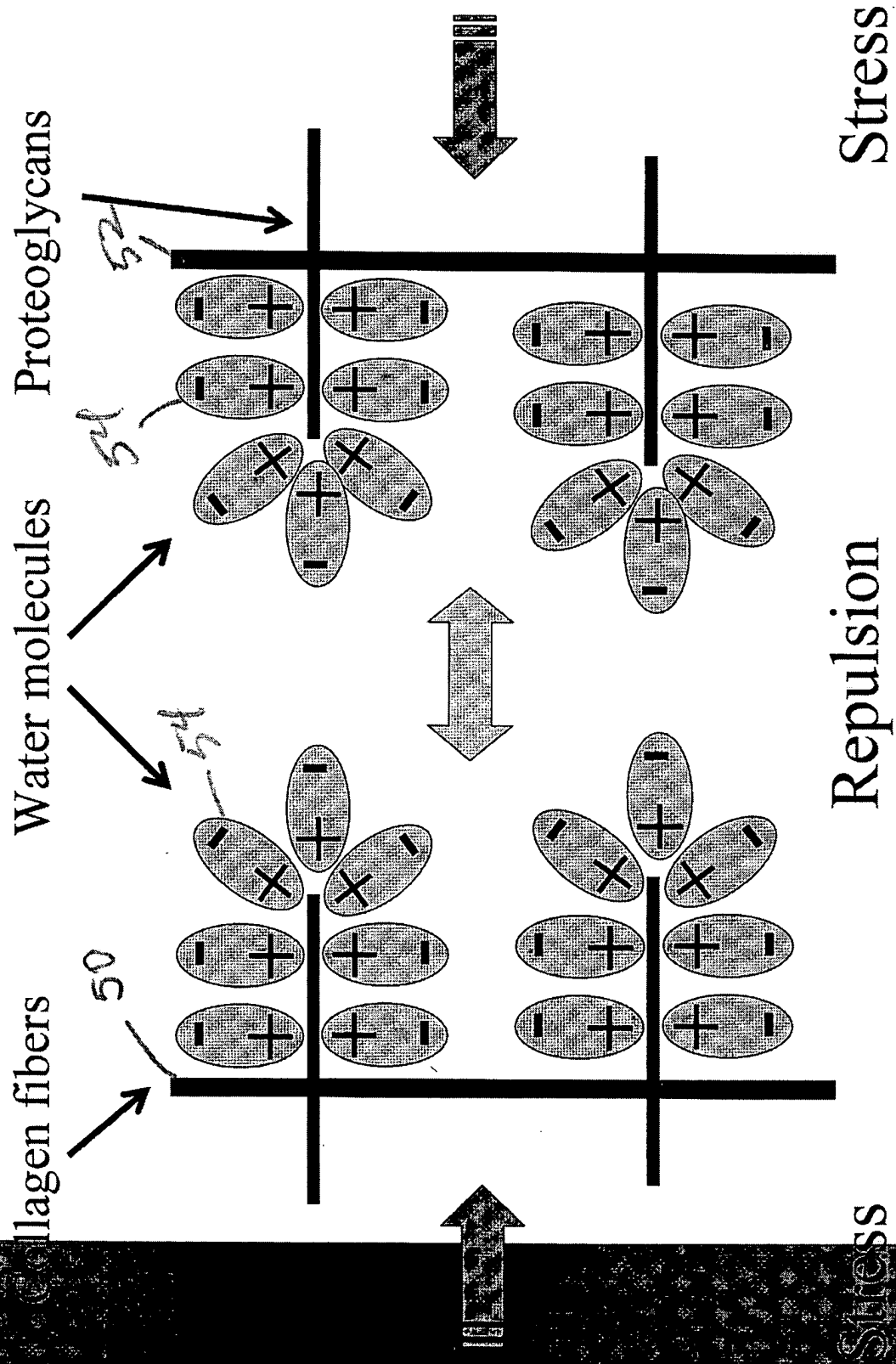


Fig 7B

Viscoelastic Model of Articular Cartilage

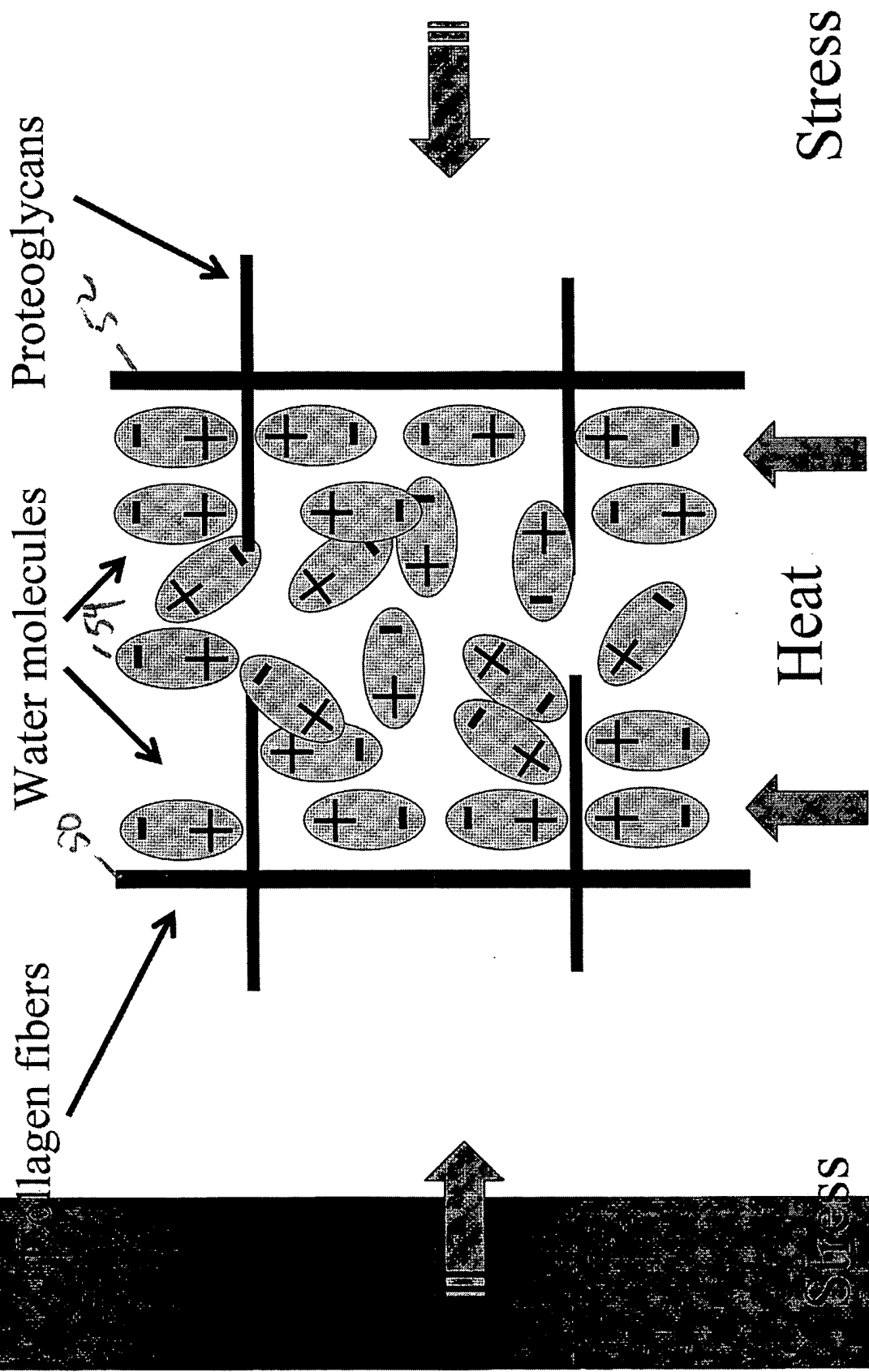
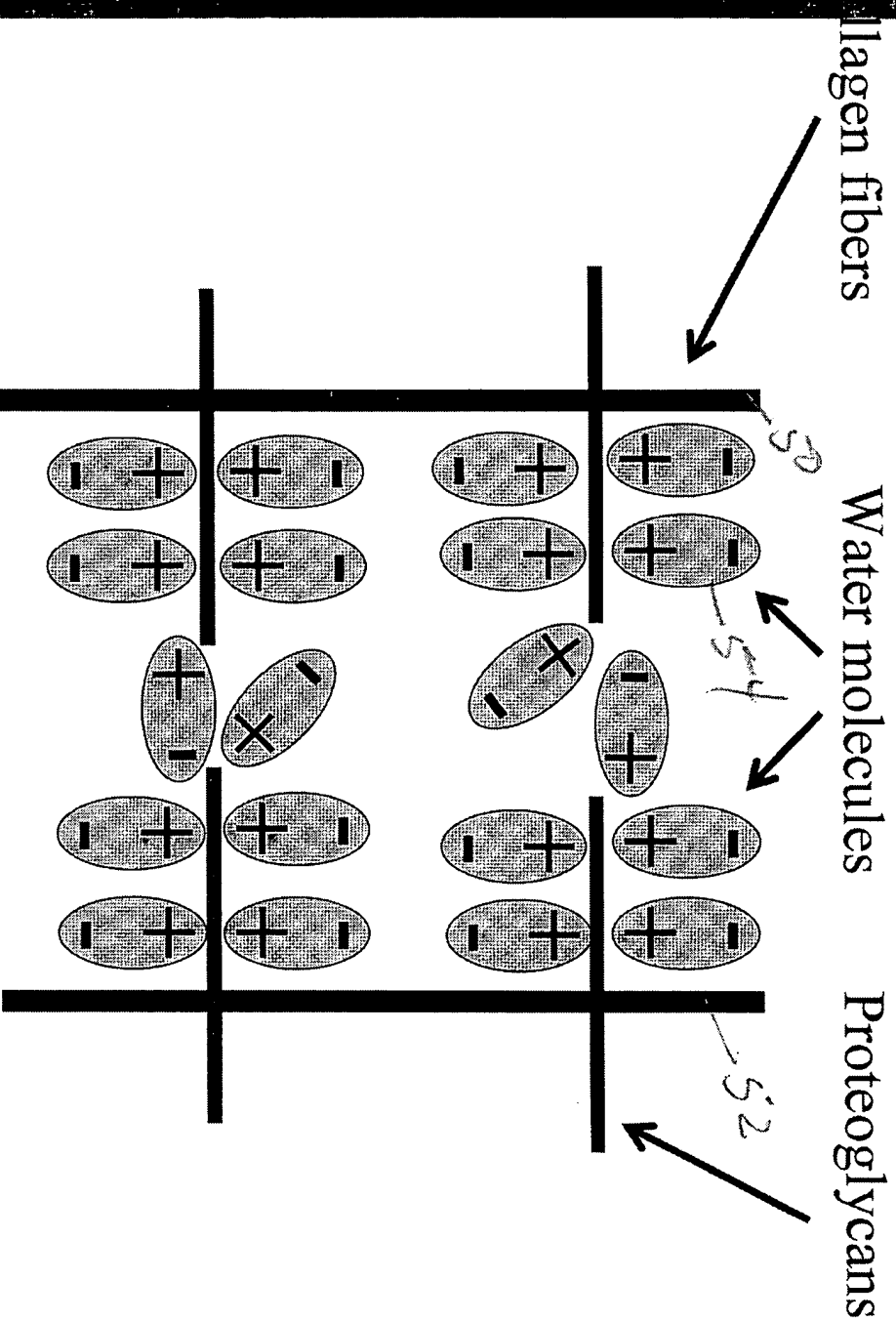


Fig. 7c

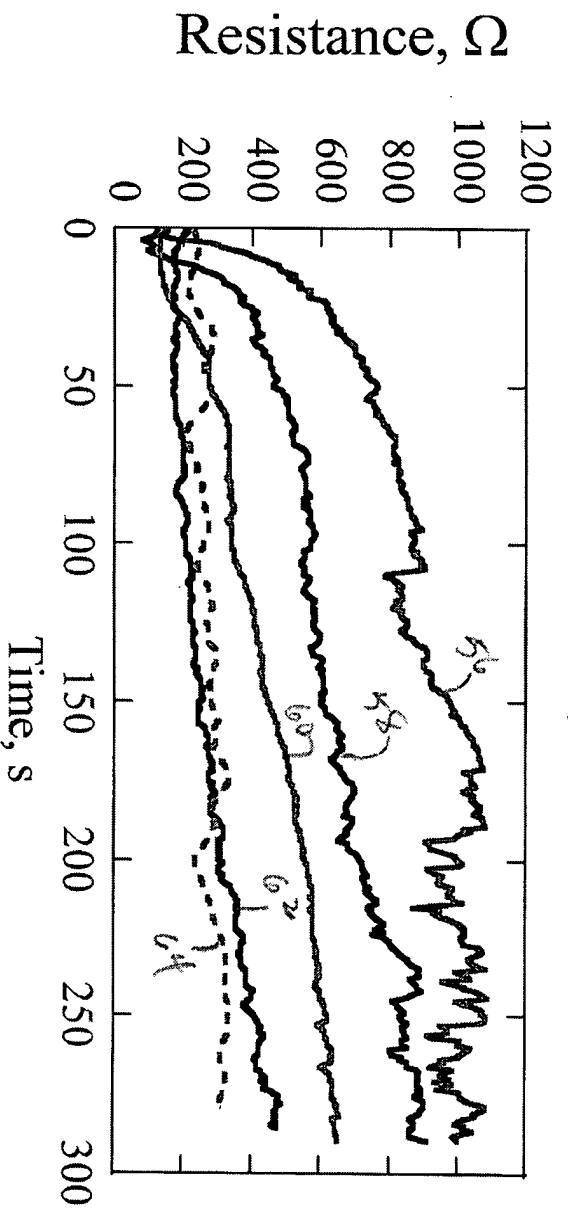
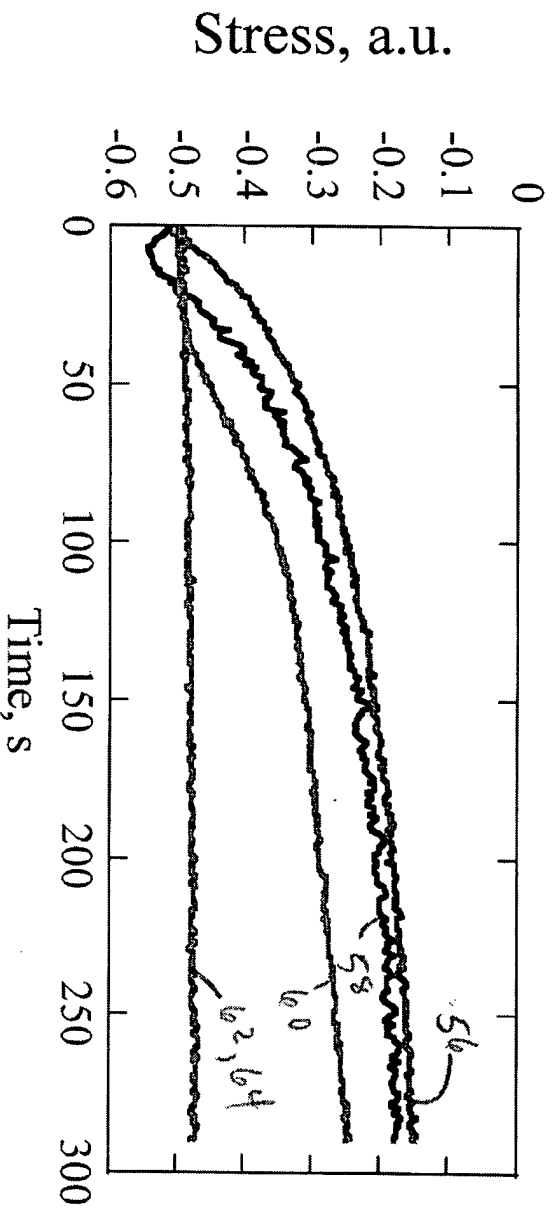
Viscoelastic Model of Articular Cartilage



New Configuration of Cartilaginous Matrix

Stress and Resistance during DC Electroforming. Aluminum, 5 min. Exposure Time.

Fig. 8A



- V=8 Volts
- V=4 Volts
- V=2 Volts
- V=0.5 Volts
- control, V=0 Volts

Fig. 8B

Reshaping Angle and Resistance Ratio (R_{after}/R_{before}) vs. Voltage

Fig. 9

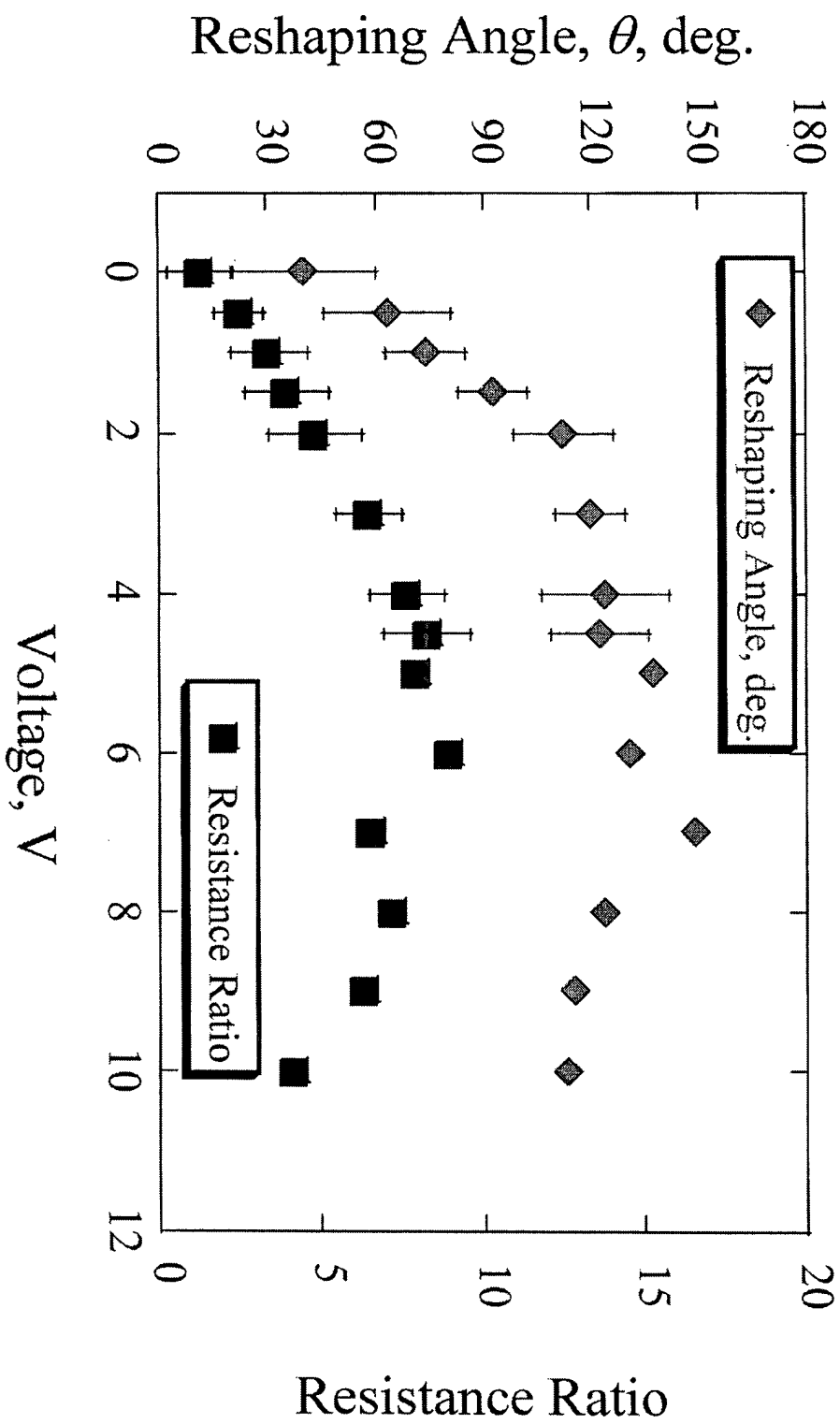


Fig. 10

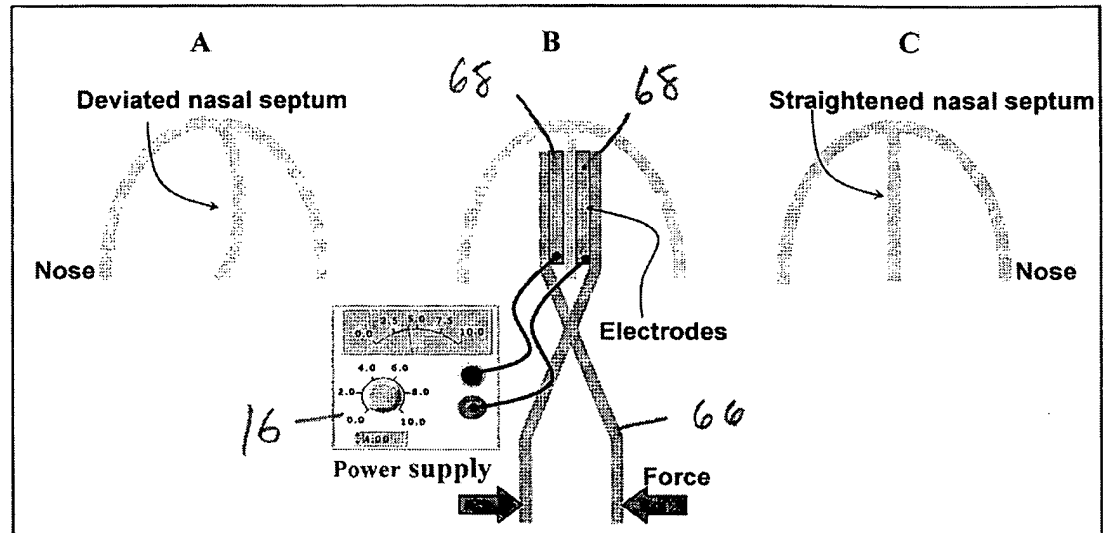


Fig. 11

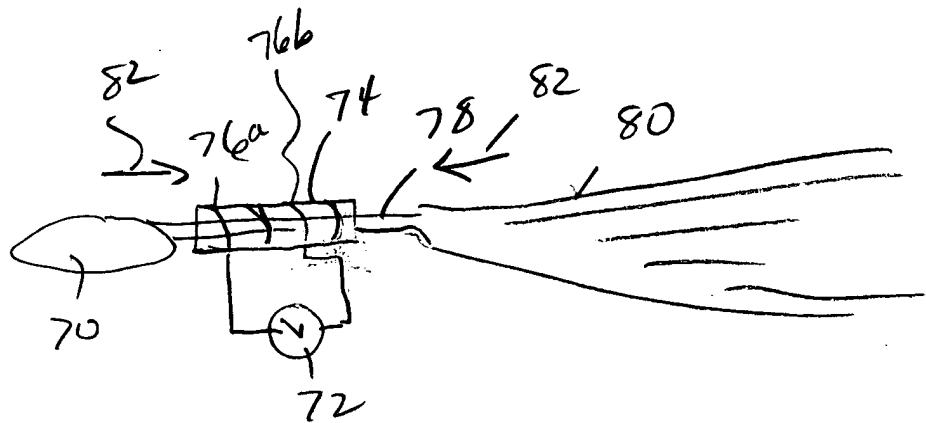


Fig. 12a



Fig. 12b

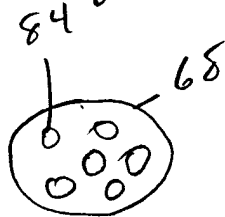


Fig. 12c



Fig. 12d

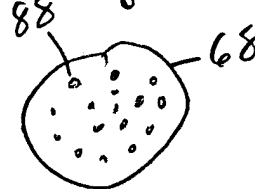


Fig. 13a

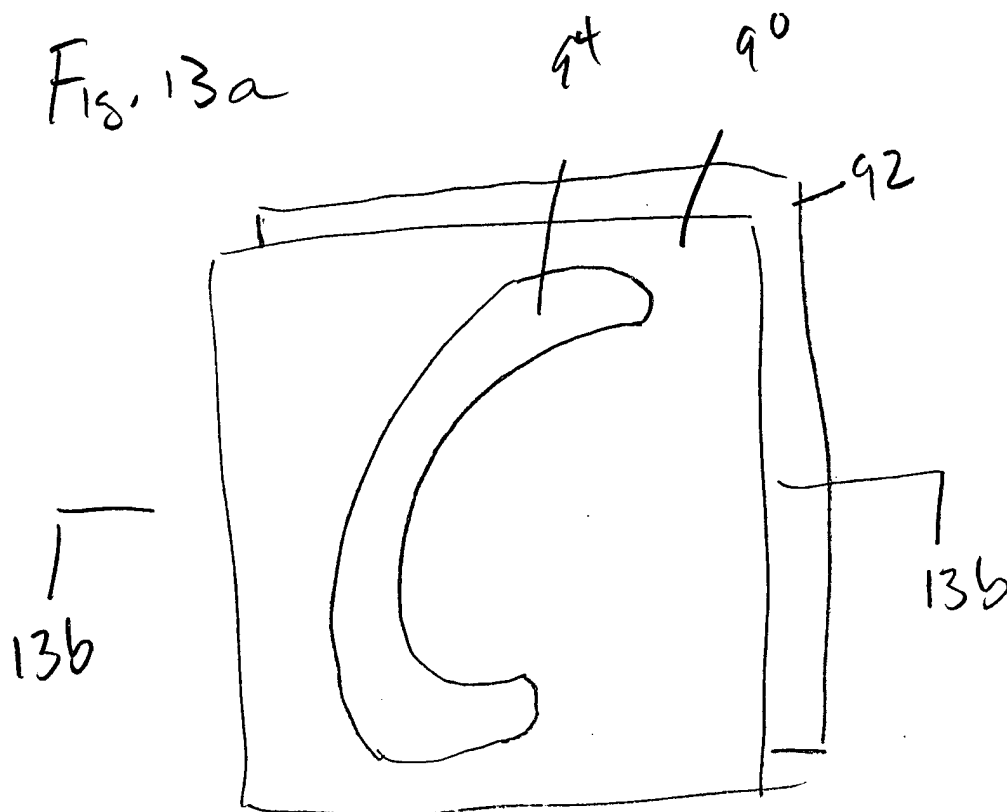


Fig. 13b

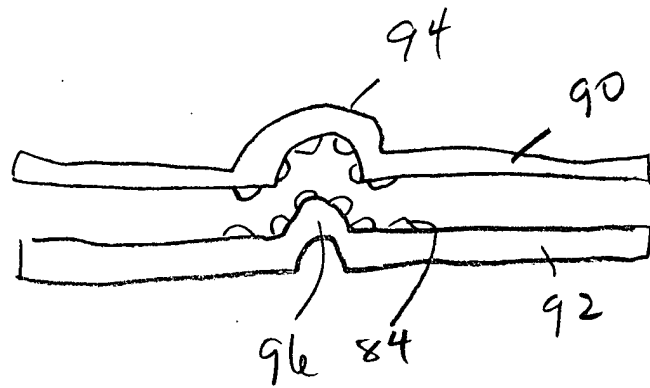


Fig. 14a

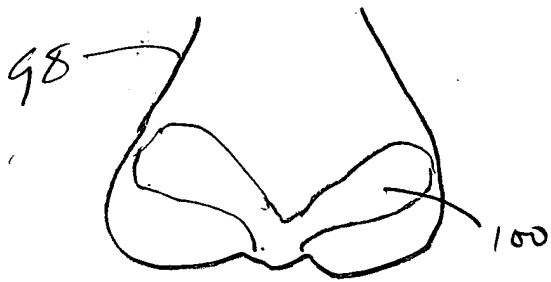


Fig. 14b



Fig. 15a

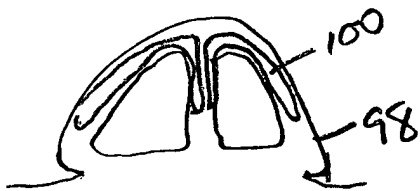


Fig. 15b

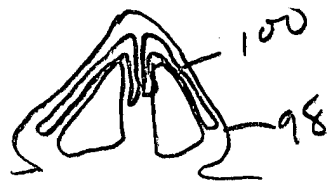


Fig. 15c

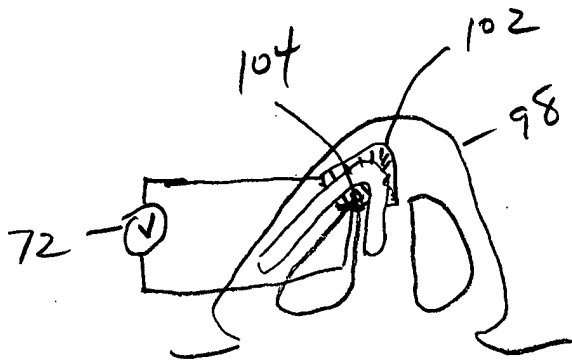


Fig. 16a

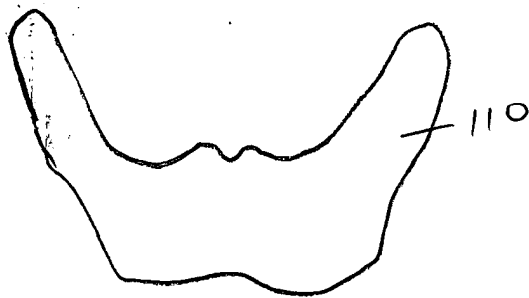


Fig. 16c

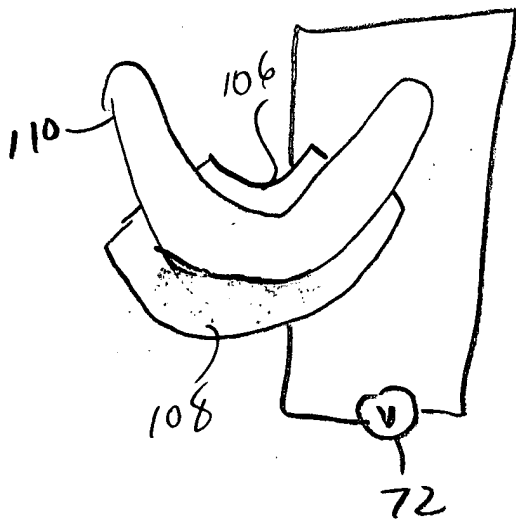


Fig. 16b



Fig. 16d

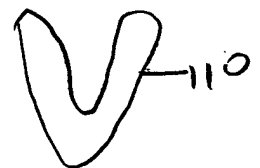


Fig. 16e

